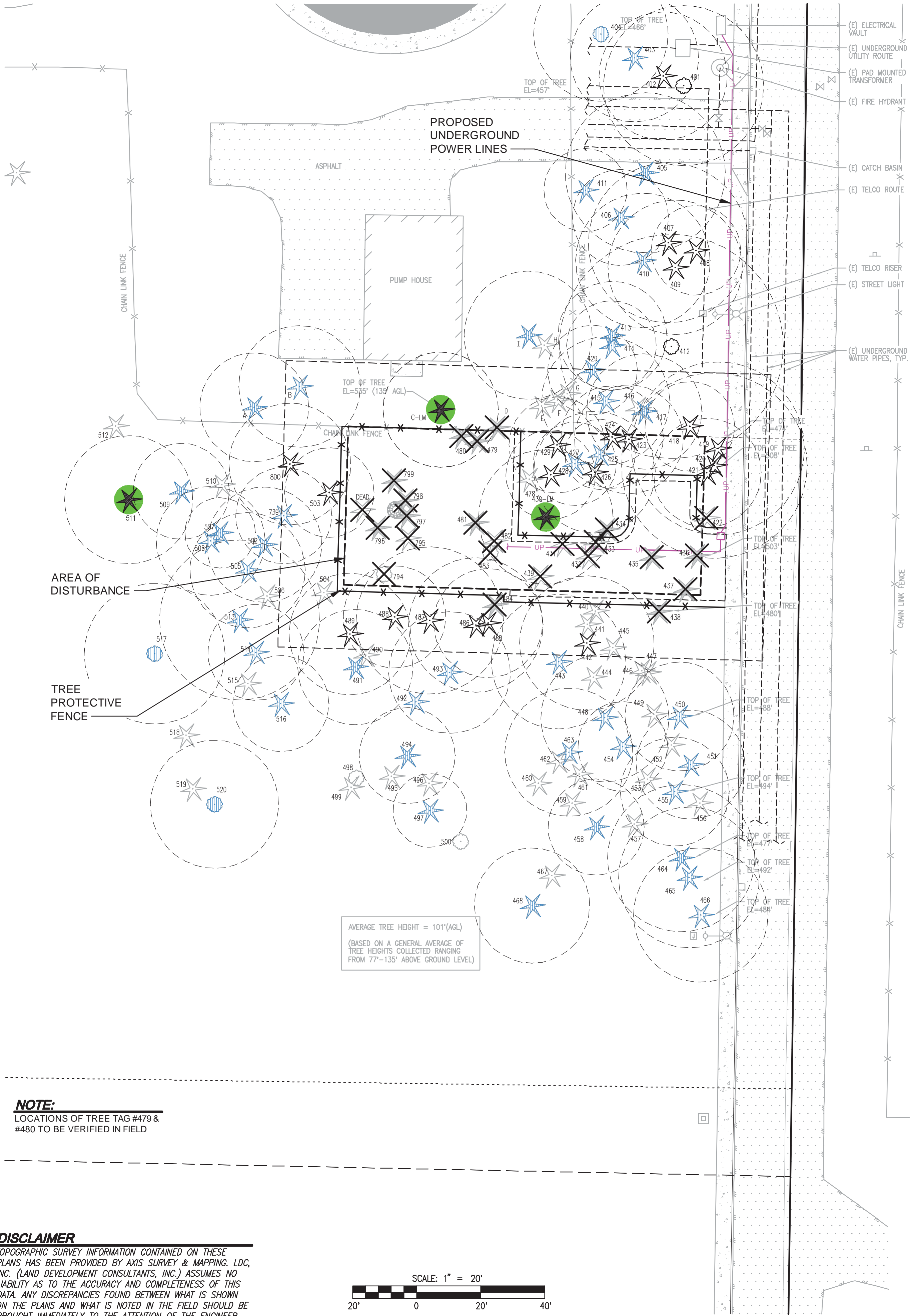
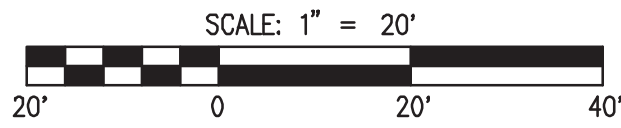


Drawing: E:\2016\Telecom\16-708 Odellia - PSERN Education Hill\Drawings\Construction\16708CD-TP-01.dwg Plotted: Mar 05, 2017 - 1:49pm



**NOTE:**  
LOCATIONS OF TREE TAG #479 & #480 TO BE VERIFIED IN FIELD

**DISCLAIMER**  
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#### UTILITY LEGEND

SYMBOL	DESCRIPTION
	TYPE 1 CATCH BASIN, GRATED LID
	TYPE 1 CATCH BASIN, SOLID LID
	TYPE 2 CATCH BASIN, GRATED LID
	TYPE 2 CATCH BASIN, SOLID LID
	SEWER MANHOLE
	WATER METER
	HYDRANT
	STREET LIGHT (SEE PSE DESIGN)
	PROPOSED "NO PARKING" SIGN
	TREE PROTECTIVE FENCE

#### PROPOSED ACTION AND BRIEF DEFINITION

TREE TYPE	REMOVAL	IMPACTED	RETAINED	RETAINED/IMPACTED*	TOTAL
LANDMARK (>30" DBH)	NUMBER OF REMOVED LANDMARK TREES	NUMBER OF IMPACTED LANDMARK TREES	NUMBER OF RETAINED LANDMARK TREES	NUMBER OF RETAINED/IMPACTED LANDMARK TREES	TOTAL LANDMARK TREES
	0	2	0	0	2
	% OF REMOVED LANDMARK TREES OF ALL LANDMARK TREES	% OF IMPACTED LANDMARK TREES OF ALL TREES	% OF RETAINED LANDMARK TREES OF ALL LANDMARK TREES	% OF RETAINED/IMPACTED LANDMARK TREES OF ALL LANDMARK TREES	% LANDMARK TREES OF ALL TREES
SIGNIFICANT (6" - 30")	NUMBER OF REMOVED SIGNIFICANT TREES	NUMBER IF IMPACTED SIGNIFICANT TREES	NUMBER OF RETAINED SIGNIFICANT TREES	NUMBER OF RETAINED/IMPACTED SIGNIFICANT TREES	TOTAL NUMBER OF SIGNIFICANT TREES
	14	16	43	7	80
	% SIGNIFICANT REMOVED OF ALL SIGNIFICANT TREES	% IMPACTED OF ALL SIGNIFICANT TREES	% RETAINED OF ALL SIGNIFICANT TREES	% RETAINED/IMPACTED OF ALL SIGNIFICANT TREES	% SIGNIFICANT TREES OF ALL TREES
TOTALS	NUMBER OF LANDMARK + SIGNIFICANT REMOVED TREES	NUMBER OF LANDMARK + SIGNIFICANT IMPACTED	NUMBER OF LANDMARK + SIGNIFICANT RETAINED	NUMBER OF LANDMARK + SIGNIFICANT RETAINED/IMPACTED TREES	TOTAL NUMBER OF ALL TREES
	14	18	43	7	82
	% REMOVED OF ALL TREES	% IMPACTED OF ALL TREES	% RETAINED OF ALL TREES	% RETAINED/IMPACTED OF ALL TREES	
	14/82=17%	18/82=22%	43/82=52%	7/82=9%	100%

\*IMPACTED BY UTILITIES COUNTS AS RETAINED TREES

#### REPLACEMENT TREES

REPLACEMENT QUOTA	NUMBER OF TREES	NUMBER OF REPLACEMENT TREES	TOTAL NUMBER OF REPLACEMENT TREES
REMOVED LANDMARK (3:1)	0	0	0
IMPACTED LANDMARK (3:1)	2	6	6
REMOVED SIGNIFICANT (1:1)	14	14	14
IMPACTED SIGNIFICANT	16	16	16
TOTAL # OF REPLACEMENT TREES			36

#### 35% TREE RETENTION

RZC 21.72.060(A)(1) REQUIRES 35% OF SIGNIFICANT TREES BE RETAINED 82*.35= 29 TREES
PROPOSED IMPROVEMENTS RETAINS 50 TREES
PROPOSED IMPROVEMENTS IMPACTS 18 TREES
MITIGATION: 14 + 6 = 16 = 36 TREES

#### TREE LEGEND

	LANDMARK TREE
	IMPACTED TREE
	NON-VIABLE TREE
	NON-VIABLE TREE (TO BE REMOVED)
	VIABLE TREE
	TREE (TO BE REMOVED)
	TREE CONIFEROUS
	TREE DECIDUOUS
841	TREE TAG NUMBER
CW	COTTON WOOD TREE
F	FIR TREE
M	MAPLE TREE
A	ALDER TREE
S	SPRUCE TREE
C	CEDAR TREE
P	PINE TREE
	TREE PROTECTION BUFFER 5' BEYOND DRIPLINE
	PROTECTION BUFFER AREA



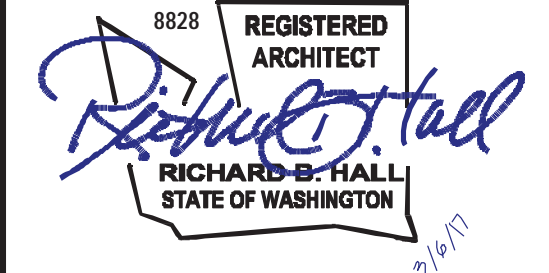
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DATE:	7-14-16
DRAWN BY:	JFO
CHECKED BY:	RBH

#### SUBMITTALS

REV	DATE	DESCRIPTION	BY
6	12-13-16	RFCD: PER CITY COMMENTS	JFO
7	12-15-16	RFCD: PER CITY COMMENTS	JFO
8	1-4-17	RFCD: PER CITY COMMENTS	JFO
9	1-6-17	RFCD: PER CITY COMMENTS	JFO
10	2-10-17	RFCD: PER CITY COMMENTS	JDM
11	2-14-17	RFCD: PER CITY COMMENTS	JDM
12	2-15-17	RFCD: PER CITY COMMENTS	JDM
13	3-6-17	RFCD: PER CITY COMMENTS	JDM



#### APPROVAL STAMP

#### SITE

PSERN  
EDUCATION HILL

10365 172ND AVE NE  
REDMOND, WA 98052

#### SHEET TITLE

TREE PRESERVATION PLAN

#### SHEET NAME

TR-01

#### SHEET NUMBER

16-0925



Drawing: E:\2016\Telecom\16-708 Odeia - PSERN Education Hill\Drawings\Construction\16708CD-TP-01.dwg      Plotted: Mar 05, 2017 - 1:49pm

ONSITE TREES

1	2	3	4	5	6	7	8	9	10				11				12
#	Tree Tag #	Species ID	DBH inches	Adj. DBH inches	Drip-line radius feet	Wind-firm	Health	Defects/Comments	Proposed Action				CRZ/TPZ/LOD includes 5' buffer				Value
									REMOVE				Radius in feet				
									RETAINED*	IMPACTED	NON-VIABLE	FOR SITE IMPROVEMENTS	N	W	E	S	
1	401	Bigleaf maple	5, 6	8	20	y	Good	Co-dominant leaders with included bark x2 @ 4', typical of species	1*				25	25	25	25	S
2	402	Douglas fir	13	13	15	y	Good	Typical of species, dead wood, broken branches	1*				20	20	20	20	S
3	403	Douglas fir	14	14	15	y	OK	Typical of species, dead wood, broken branches	1				21	21	21	21	S
4	404	Maple	13.5	13.5	16	y	OK	Co-dominant leaders with included bark x2 @ 6', woodpecker activity, dead twigs	1				21	21	21	21	S
5	405	Douglas fir	11	11	20	y	OK	Dead wood, dead twigs, typical of species	1				25	25	25	25	S
6	406	Douglas fir	7	7	10	y	OK	Dead wood, dead twigs, suppressed canopy	1				15	15	15	15	S
7	407	Douglas fir	22	22	20	y	OK	Some stress coning, dead wood, broken branches, low live crown ratio - 30%	1*				25	25	25	25	S
8	408	Western red cedar	7	7	9	y	OK	Topped @ 7', typical of species	1*				14	14	14	14	S
9	409	Western red cedar	12.5	12.5	16	y	OK	Typical of species, asymmetric canopy to east, dead wood	1*				21	21	21	21	S
10	410	Western red cedar	25.5	25.5	16	y	Good	Typical of species	1				21	21	21	21	S
11	411	Douglas fir	6	6	8	y	OK	Exposed roots, thin canopy, typical of species	1				13	13	13	13	S
12	412	Bigleaf maple	29	29	30	y	Good	Typical of species	1*				35	35	35	35	S
13	413	Douglas fir	13	13	12	y	OK	Low live crown ratio - 10%, OK in grove	1				17	17	17	17	S
14	414	Western red cedar	9	9	9	y	Good	Typical of species	1				14	14	14	14	S
15	415	Western red cedar	16	16	14	y	OK	Typical of species, thin canopy	1				19	19	19	19	S
16	416	Western red cedar	9	9	8	y	Fair	Dead wood, broken branches, thin canopy, suppressed canopy, OK in grove			1		13	13	13	13	S
17	417	Western red cedar	10	10	14	y	OK	Asymmetric canopy to SE, thin canopy, dead wood, broken branches, OK in grove	1				17	17	17	17	S
18	418	Western red cedar	9	9	9	y	OK	Thin canopy, dead wood, broken branches, suppressed canopy, OK in grove	1*				14	14	10	14	S
19	419	Western red cedar	17	17	22	y	OK	Typical of species, asymmetric canopy to east, dead wood, broken branches		1			27	6	27	27	S
20	420	Douglas fir	24	24	24	y	Good	Abnormal bark, shedding bark, carpenter ants bark only, sway to west, previous top loss, elongated branches		1			29	3	29	29	S
21	421	Western red cedar	14	14	12	y	OK	Typical of species		1			17	17	17	17	S
22	422	Douglas fir	12	12	20	y	Fair	Previous top loss, elongated branches, suppressed canopy, wound @ 6' on south and 8' on south, dead wood, broken branches, dead twigs, OK in grove			1		25	25	25	25	S
23	423	Western red cedar	10	10	12	y	OK	Asymmetric canopy to east, dead wood, low live crown ratio - 10%		1			17	11	17	11	S
24	424	Western red cedar	8.5	8.5	11	y	OK	Thin canopy, dead wood, low live crown ratio - 10%, OK in grove		1			16	11	16	11	S
25	425	Western red cedar	7	7	6	y	OK	Asymmetric canopy to SE, thin canopy, dead wood, low live crown ratio - 5%, OK in grove	1				11	11	11	11	S
26	426	Western red cedar	20	20	14	y	OK	Asymmetric canopy to east, vertical crack, torque crack on west, dead wood, broken branches		1			19	19	19	13	S

27	427	Western red cedar	8	8	7	y	OK	Suppressed canopy, dead wood, broken branches, typical of species	1				13	13	13	S
28	428	Western red cedar	12	12	9	y	Good	Typical of species, nurse tree		1			14	14	14	S
29	429	Western red cedar	14	14	10	y	OK	Calloused wound @ 5' to 6' on north, typical of species, cavity @ root crown to 1' on north, dead wood, broken branches, calloused @ 3' on south		1			15	15	15	S
30	430	Douglas fir	31.5	31.5	16	y	OK	Abnormal bark, shedding bark, carpenter ants bark only, bark beetle, low live crown ratio - 30%		1			21	21	21	L
31	431	Douglas fir	12	12	12	y	Fair	Previous top loss, weak lateral, elongated branches, low live crown ratio - 5%, OK in grove			1		17	17	17	S
32	432	Douglas fir	8	8	9	y	Fair	Previous top loss, suppressed canopy, dead wood, OK in grove			1		14	14	14	S
33	433	Douglas fir	10.5	10.5	11	y	Fair	Previous top loss, poor laterals @ top, OK in grove			1		16	16	16	S
34	434	Western red cedar	10	10	11	y	OK	Typical of species, suppressed canopy				1	16	16	16	S
35	435	Western red cedar	13	13	12	y	OK	Co-dominant leaders with included bark x2 @ 6', typical of species, thin canopy				1	17	17	17	S
36	436	Douglas fir	23	23	22	y	OK	Previous top loss				1	27	27	27	S
37	437	Western red cedar	13	13	8	y	Good	Typical of species, slight lean to east				1	13	13	13	S
38	438	Douglas fir	19	19	15	y	OK	Dead wood, dead twigs, dead tissue in canopy, free flowing sap to south, vertical crack @ 4' to 12', asymmetric canopy to south, OK in grove				1	20	20	20	S
39	439	Douglas fir	15	15	15	y	Fair	Self-corrected lean to west, no taper, nurse tree, dead wood, broken branches, serpentine trunk, dead twigs, OK in grove				1	20	20	20	S
40	440	Douglas fir	13.5	13.5	17	y	Fair	No taper, self-corrected lean to south, previous top loss, dead wood, broken branches, dead twigs, thin canopy, OK in grove				1	22	22	22	S
41	441	Douglas fir	23	23	18	y	Fair	Taps hollow, lean to north, non-self-corrected lean, previous top loss, elongated branches, dead wood, broken branches, dead twigs, OK in grove				1	23	23	23	S
42	442	Douglas fir	19	19	16	y	OK	Low live crown ratio - 10%, dead wood, broken branches, dead tissue in canopy, sap			1		12	21	21	S
43	443	Douglas fir	22	22	16	y	OK	Typical of species				1	21	21	21	S
44	444	Douglas fir	11	11	9	y	Fair	Dead wood, broken branches, dead twigs, asymmetric canopy to south, no taper, abnormal bark, shedding bark, carpenter ants bark only, woodpecker activity, serpentine trunk, OK in grove				1	14	14	14	S
45	445	Douglas fir	9.5	9.5	12	y	Fair	Abnormal bark, no taper, calloused wound @ root crown up to 1' on south, previous top loss, suppressed canopy, low live crown ratio - 10%, OK in grove, dead wood, dead twigs, elongated branches				1	17	17	17	S
46	446	Western red cedar	6	6	4	y	Poor	Exposed roots, decay @ root, cavity @ root crown, self-corrected lean to south				1	9	9	9	S
47	447	Douglas fir	12, 13	17.5	12	y	Fair	Co-dominant leaders with included bark x2 @ root crown, weak laterals, previous top loss on both, OK in grove				1	17	17	17	S
48	448	Douglas fir	23	23	15	y	OK	Low live crown ratio - 30%, dead wood, broken branches, typical of species				1	20	20	20	S
49	449	Douglas fir	8	8	6	y	Poor	Previous top loss, failing to west, laminated root rot? Mostly dead				1	11	11	11	S
50	450	Douglas fir	19	19	12	y	OK	Moss and lichen, low live crown ratio - 20%				1	17	17	17	S
51	451	Holly	7, 9	11.5	12	y	OK	Co-dominant leaders with included bark x2 @ 1', typical of species, asymmetric canopy to east				1	17	17	17	S
52	452	Douglas fir	11	11	12	y	Fair	Co-dominant leaders with included bark x2 @ 20', 2 weak laterals, low live crown ratio - 10%, serpentine trunk, dead wood, broken branches, OK in grove				1	17	17	17	S



King County



**LDC**  
THE CIVIL ENGINEERING GROUP

Architectural  
Engineering  
Structural  
Survey

20210 142nd Ave NE  
Woodinville, WA 98072

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CHECKED BY:	RBH

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
6	12-13-16	RFCD: PER CITY COMMENTS	JFO
7	12-15-16	RFCD: PER CITY COMMENTS	JFO
8	1-4-17	RFCD: PER CITY COMMENTS	JFO
9	1-6-17	RFCD: PER CITY COMMENTS	JFO
10	2-10-17	RFCD: PER CITY COMMENTS	JDM
11	2-14-17	RFCD: PER CITY COMMENTS	JDM
12	2-15-17	RFCD: PER CITY COMMENTS	JDM
13	3-6-17	RFCD: PER CITY COMMENTS	JDM



APPROVAL STAMP

**SITE**

PSERN  
EDUCATION HILL

10365 172ND AVE NE  
REDMOND, WA 98052

**SHEET TITLE**

TREE PRESERVATION TABLE

**SHEET NAME**

TR-02

**SHEET NUMBER**

16-0926



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ONSITE TREES CONT.

53	453	Douglas fir	8.5	8.5	8	y	Fair	Suppressed canopy, co-dominant leaders with included bark x2 reduced to 1 @ 20', previous top loss, dead wood, dead twigs, low live crown ratio - 5%, OK in grove			1		13	13	13	13	S
54	454	Western red cedar	6	6	9	y	OK	Suppressed canopy, dead wood, typical of species	1				14	14	14	14	S
55	455	Western red cedar	7.5	7.5	12	y	OK	Typical of species, thin canopy, self-corrected lean to west, nurse tree	1				17	17	17	17	S
56	456	Douglas fir	11	11	10	y	Fair	Serpentine trunk, co-dominant leaders with included bark x2 reduced to 1 @ 25', suppressed canopy, dead wood, broken branches, previous top loss, OK in grove, lean to north			1		15	15	15	15	S
57	457	Douglas fir	21	21	17	y	Fair	Dead wood, broken branches, dead twigs, dead tissue in canopy, early laminated root rot? OK in grove			1		22	22	22	22	S
58	458	Western red cedar	7	7	10	y	OK	Suppressed canopy, thin canopy, dead wood, broken branches	1				15	15	15	15	S
59	459	Douglas fir	13	13	12	y	Fair	Wound @ 15' on north and 16' on west, low live crown ratio - 10%, dead wood, broken branches, OK in grove			1		17	17	17	17	S
60	460	Douglas fir	24	24	14	y	Fair	Abnormal bark, shedding bark, carpenter ants bark only, previous top loss, dead twigs, Horizontal crack @ 6', taps hollow			1		19	19	19	19	S
61	461	Douglas fir	8.5	8.5	10	y	Fair	Suppressed canopy, co-dominant leaders with included bark x2 reduced to 1 @ 20', dead wood, broken branches, OK in grove			1		15	15	15	15	S
62	462	Douglas fir	6	6	12	y	Poor	Failing to west			1		17	17	17	17	S
63	463	Western red cedar	16	16	15	y	OK	Typical of species, self-corrected lean to east	1				20	20	20	20	S
64	464	Western red cedar	22	22	18	y	OK	Asymmetric canopy to NE, early coning, typical of species	1				23	23	23	23	S
65	465	Douglas fir	17	17	29	y	OK	Typical of species, asymmetric canopy to east	1				22	22	22	22	S
66	466	Western red cedar	15	15	16	y	OK	Typical of species	1				21	21	21	21	S
67	467	Douglas fir	24, 11	26.5	19	y	Fair	Co-dominant leaders with included bark x2 @ root crown, 11" is dead, early laminated root rot? Dead wood, broken branches, dead tissue, thin canopy, previous top loss, elongated branches, OK in grove			1		24	24	24	24	S
68	468	Western red cedar	12	12	13	y	OK	Typical of species, recent wound @ 3' up to 8' on west	1				18	18	18	18	S
69	478	Douglas fir	8	8	8	y	Poor	Mostly dead, failing to north			1		13	13	13	13	S
70	479	Western red cedar	10	10	10	y	OK	Self-corrected lean to north, serpentine trunk, typical of species				1	15	15	15	15	S
71	480	Douglas fir	21	21	18	y	OK	Typical of species, low live crown ratio - 25%, previous top loss, elongated branches				1	23	23	23	23	S
72	481	Douglas fir	13	13	15	y	OK	Calloused wound on north @ 3' up to 14', Dead wood, broken branches, typical of species				1	20	20	20	20	S
73	482	Douglas fir	8.5	8.5	0	y	Poor	Mostly dead, failing to north			1		0	0	0	0	S
74	483	Cottonwood	11	11	10	y	Poor	Decay throughout			1		15	15	15	15	S
75	484	Western red cedar	10	10	12	y	OK	Typical of species				1	17	17	17	17	S
76	485	Western red cedar	10	10	12	y	OK	Typical of species			1		7	17	17	17	S
77	486	Douglas fir	17	17	16	y	OK	Thin canopy, asymmetric canopy to south, low live crown ratio - 25%			1		7	21	21	21	S

78	487	Douglas fir	26	26	18	y	OK	Abnormal bark, shedding bark, carpenter ants bark only, dead wood, broken branches, hanger			1				8	23	23	23	S
79	488	Western red cedar	9	9	11	y	OK	Suppressed canopy, exposed roots, dead wood, broken branches, typical of species			1				7	16	16	16	S
80	489	Western red cedar	20	20	14	y	OK	Typical of species, dead wood, broken branches			1				14	19	19	19	S
81	490	Western red cedar	7	7	11	y	Fair	Suppressed canopy, asymmetric canopy to south, broken branches, OK in grove			1				17	17	17	17	S
82	491	Western red cedar	10	10	13	y	OK	Typical of species, asymmetric canopy to south	1						18	18	18	18	S
83	492	Western red cedar	18	18	12	y	OK	Typical of species, dead wood, cavity @ root crown up to 5' on west	1						17	17	17	17	S
84	493	Western red cedar	22	22	14	y	OK	Nurse tree, exposed roots, column of decay @ 1' up to 12' on north, typical of species, broken branches, dead wood	1						19	19	19	19	S
85	494	Western red cedar	6	6	10	y	OK	Suppressed canopy, typical of species, dead wood, broken branches	1						15	15	15	15	S
86	495	Douglas fir	18	18	12	y	Fair	No taper, self-corrected lean to north, narrow canopy, abnormal bark, shedding bark, carpenter ants bark only, OK in grove				1			17	17	17	17	S
87	496	Douglas fir	16	16	18	y	Fair	Previous top loss, elongated branches, low live crown ratio - 20%, OK in grove				1			23	23	23	23	S
88	497	Douglas fir	13	13	16	y	OK	Asymmetric canopy to south, low live crown ratio - 30%, dead wood, broken branches, thin canopy, OK in grove	1						21	21	21	21	S
89	498	Bigleaf maple	8	8	18	y	Fair	Previous top loss, large wound on scaffold, OK in grove				1			23	23	23	23	S
90	499	Douglas fir	14.5	14.5	12	y	Poor	Abnormal bark, shedding bark, carpenter ants bark only, bark beetle, nurse tree, previous top loss				1			17	17	17	17	S
91	500	Alder	13	13	14	y	Fair	Previous top loss, dead wood, broken branches, low live crown ratio - 15%, OK in grove				1			19	19	19	19	S
92	502	Western red cedar	24	24	13	y	OK	Typical of species	1						18	18	18	18	S
93	503	Western red cedar	7	7	9	y	OK	Suppressed canopy, typical of species, dead wood, broken branches				1			14	3	14	14	S
94	504	Douglas fir	16	16	14	y	Poor	Mostly dead, serpentine trunk, failing to north				1			19	19	19	19	S
95	505	Western red cedar	18	18	13	y	OK	Typical of species, slight lean to west	1						18	18	18	18	S
96	506	Douglas fir	17	17	0	y	Poor	Failing to north				1			0	0	0	0	S
97	507	Western red cedar	8	8	6	y	OK	Thin canopy, suppressed canopy, typical of species, nurse tree	1						11	11	11	11	S
98	508	Western red cedar	17	17	12	y	OK	Thin canopy, suppressed canopy, typical of species, nurse tree	1						17	17	17	17	S
99	509	Western red cedar	15.5	15.5	10	y	OK	Self-corrected lean to south, typical of species	1						15	15	15	15	S
100	510	Douglas fir	20	20	15	y	Fair	Abnormal bark, shedding bark, carpenter ants, nurse tree, probable laminated root rot				1			20	20	20	20	S
101	511	Douglas fir	30	30	15	y	Poor	Abnormal bark, shedding bark, carpenter ants, woodpecker activity, laminated root rot?				1			20	20	20	20	L
102	512	Douglas fir	14	14	15	y	Fair	Serpentine trunk				1			20	20	20	20	S
103	513	Western red cedar	20	20	10	y	OK	Self-corrected lean to west, typical of species, exposed roots, suppressed canopy	1						15	15	15	15	S
104	514	Western red cedar	9.5	9.5	10	y	OK	Typical of species, dead wood	1						15	15	15	15	S
105	515	Douglas fir	13	13	8	y	Poor	Failing to north				1			13	13	13	13	S
106	516	Western red cedar	13	13	10	y	OK	Exposed roots, typical of species, suppressed canopy	1						15	15	15	15	S
107	517	Bigleaf maple	9	9	17	y	OK	Suppressed canopy, dead wood, serpentine trunk	1						22	22	22	22	S



King County

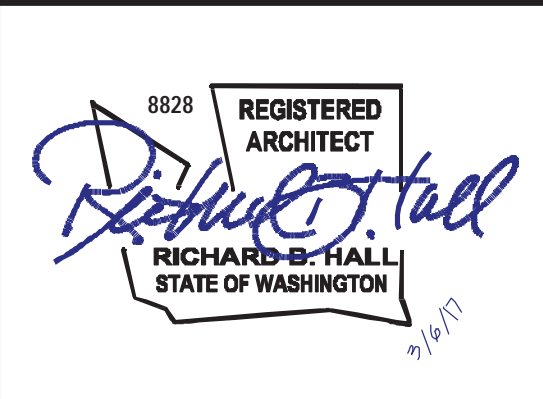


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DATE:	7-14-16
DRAWN BY:	JFO
CHECKED BY:	RBH

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
6	12-13-16	RFCD: PER CITY COMMENTS	JFO
7	12-15-16	RFCD: PER CITY COMMENTS	JFO
8	1-4-17	RFCD: PER CITY COMMENTS	JFO
9	1-6-17	RFCD: PER CITY COMMENTS	JFO
10	2-10-17	RFCD: PER CITY COMMENTS	JDM
11	2-14-17	RFCD: PER CITY COMMENTS	JDM
12	2-15-17	RFCD: PER CITY COMMENTS	JDM
13	3-6-17	RFCD: PER CITY COMMENTS	JDM



APPROVAL STAMP



**SITE**  
PSERN  
EDUCATION HILL  
  
10365 172ND AVE NE  
REDMOND, WA 98052

**SHEET TITLE**  
TREE PRESERVATION TABLE  
CONT.

**SHEET NAME**  
**TR-03**

**SHEET NUMBER**  
16-0927



Drawing: F:\2016\Telecom\16-708 Odeia - PSERN Education Hill\Drawings\Construction\16708CD-TP-01.dwg      Plotted: Mar 05, 2017 - 1:49pm

ONSITE TREES CONT.

108	518	Douglas fir	14	14	13	y	Poor	Dying, laminated root rot			1		18	18	18	18	S
109	519	Douglas fir	14	14	14	y	Poor	No taper, low live crown ratio 20%, dead wood, broken branches, probable laminated root rot			1		19	19	19	19	S
110	520	Bigleaf maple	9.5	9.5	15	y	OK	Suppressed canopy, serpentine trunk, dead wood, typical of species	1				20	20	20	20	S
111	739	Western red cedar	8	8	10	y	OK	Typical of species	1				15	15	15	15	S
112	794	Alder	9	9	10	y	Poor	Cavity @ 4' up to 7' on south			1		15	15	15	15	S
113	795	Douglas fir	19	19	10	y	Fair	Low live crown ratio - 15%, typical of species, nurse tree, dead wood, broken branches, laminated root rot?			1		15	15	15	15	S
114	796	Western red cedar	9	9	11	y	OK	Suppressed canopy, typical of species				1	16	16	16	16	S
115	797	Western red cedar	7	7	9	y	OK	Typical of species, suppressed canopy, self-corrected lean to west				1	15	15	15	15	S
116	798	Western red cedar	8	8	11	y	OK	Slight serpentine trunk, asymmetric canopy to south, typical of species				1	16	16	16	16	S
117	799	Western red cedar	24	24	15	y	OK	Nurse tree, typical of species				1	20	20	20	20	S
118	800	Western red cedar	27	27	14	y	OK	Column of decay on east, vertical crack on east @ 3' up to 12', typical of species		1			15	19	19	19	S
119	A	Western red cedar	18	18	12	Y	OK	Typical of species	1				17	17	17	17	S
120	B	Western red cedar	18	18	14	Y	OK	Typical of species	1				19	19	19	19	S
121	C	Douglas fir	30	30	13	Y	OK	Asymmetric canopy to south, low live crown ratio 15%, dead wood, broken branches, Ivy @ root crown up to 20'		1			18	18	18	6	L
122	D	Western red cedar	18	18	16	Y	OK	Typical of species, suppressed canopy, dead wood				1	21	4	21	4	S
123	E	Western red cedar	10	10	9	Y	Fair	Suppressed canopy, dead wood, broken branches, asymmetric canopy to north			1		14	14	14	14	S
124	F	Douglas fir	16	16	14	Y	Fair	Lean to west, thin canopy, abnormal bark, carpenter ants, woodpecker activity, OK in grove			1		19	19	19	19	S
125	G	Douglas fir	12	12	9	Y	Fair	Self-corrected lean to east, asymmetric canopy to east, broken branches, dead wood, horizontal crack @ 1' on east, OK in grove			1		14	14	14	14	S
126	H	Douglas fir	16	16	14	Y	Fair	co-dominant leaders with included bark x2 @ 30' reduced to 1, hanger, dead wood, broken branches, laminated root rot? OK in grove			1		19	19	19	19	S
127	I	Western red cedar	17	17	16	Y	OK	Suppressed canopy, typical of species	1				21	21	21	21	S
* impacted by Utilities demarked by * and considered retained (9)									50	18	45	14		127			



King County



**LDC**  
THE CIVIL ENGINEERING GROUP

20210 142nd Ave NE  
Woodinville, WA 98072

Architectural  
Engineering  
Structural  
Survey

Ph. 425.806.1869  
Fx. 425.482.2893  
[www.LDCcorp.com](http://www.LDCcorp.com)

DATE:	7-14-16
DRAWN BY:	JFO
CHECKED BY:	RBH

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
6	12-13-16	RFCD: PER CITY COMMENTS	JFO
7	12-15-16	RFCD: PER CITY COMMENTS	JFO
8	1-4-17	RFCD: PER CITY COMMENTS	JFO
9	1-6-17	RFCD: PER CITY COMMENTS	JFO
10	2-10-17	RFCD: PER CITY COMMENTS	JDM
11	2-14-17	RFCD: PER CITY COMMENTS	JDM
12	2-15-17	RFCD: PER CITY COMMENTS	JDM
13	3-6-17	RFCD: PER CITY COMMENTS	JDM



APPROVAL STAMP

**SITE**  
PSERN  
EDUCATION HILL  
  
10365 172ND AVE NE  
REDMOND, WA 98052

**SHEET TITLE**  
TREE PRESERVATION TABLE  
CONT.

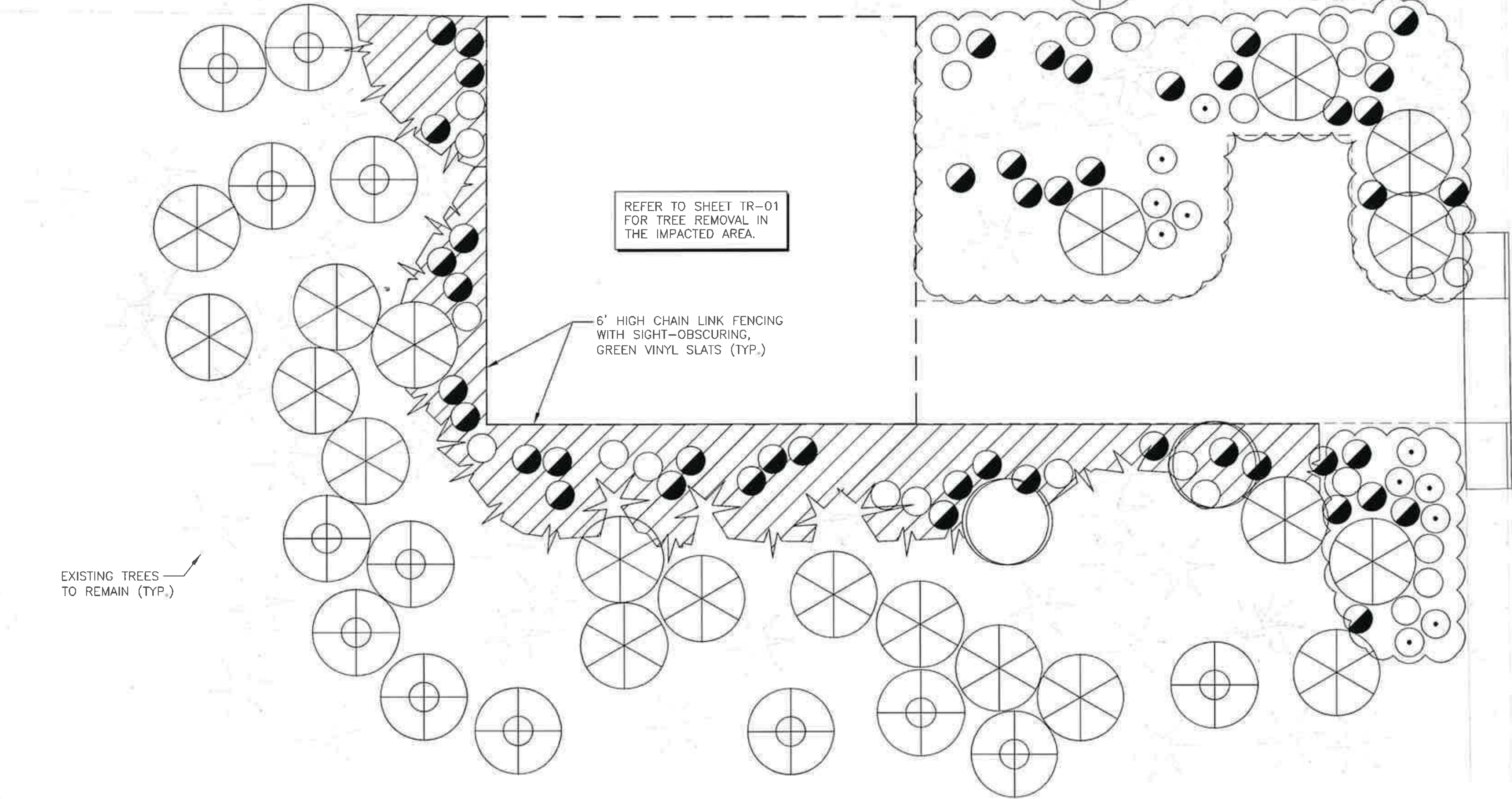
**SHEET NAME**  
**TR-04**

**SHEET NUMBER**  
16-0928



PLANT SCHEDULE									
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE/COMMENTS	QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE/COMMENTS
TREES					GROUND COVER				
15		PSEUDOTSUGA MENZIESII	DOUGLAS FIR	8'-10' HT. SPECIMEN QUALITY	AS NEEDED		GAULTHERIA SHALLON	SALAL	1 GAL. CONT. PLANT @ 3' O.C.
21		THUJA PLICATA 'FASTIGIATA'	HOGAN RED CEDAR	8'-10' HT. SPECIMEN QUALITY	AS NEEDED		POLYSTICHUM MUNITUM	WESTERN SWORD FERN	2 GAL. PLANT @ 4' O.C.
2		ACER CIRCINATUM	VINE MAPLE	10'-12' HT. MULTI-STEM, SPECIMEN QUALITY					
		EXISTING TREES TO REMAIN		PRESERVE AND PROTECT					
SHRUBS									
24		MAHONIA AQUIFOLIUM	OREGON GRAPE	16"-21", FULL AND BUSHY					
11		VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	5 GAL. CONT. 18" MIN. HT.					
47		ARBUTUS UNEDO 'COMPACTA'	DWARF STRAWBERRY TREE	5 GAL. CONT. 24" MIN. HT. PLANT @ 3.5' O.C.					

REPLACEMENT QUOTA	NUMBER OF TREES	NUMBER OF REPLACEMENT TREES	TOTAL NUMBER OF REPLACEMENT TREES
REMOVED LANDMARK (3:1)	0	0	0
IMPACTED LANDMARK (3:1)	2	6	6
REMOVED SIGNIFICANT (1:1)	14	14	14
IMPACTED SIGNIFICANT	16	16	16
TOTAL # OF REPLACEMENT TREES REQUIRED			36
TOTAL # OF TREES PROVIDED			38



172ND AVE. NE



SHAWN PARSONS  
CERTIFICATE NO. 307



**King County**

**PSEERN**  
PUGET SOUND EMERGENCY RADIO NETWORK  
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**EDUCATION HILL**  
(NEW BUILD)  
10366 172ND AVE. NE  
REDMOND, WA 98052

**Odelia Pacific Corporation**  
5606 6TH AVE. S, SUITE 202  
SEATTLE, WA 98108  
PHONE: (206) 490-3826  
WWW.ODELIA.COM

**CAMP+ ASSOCIATES**  
19401 40TH AVE. W, SUITE 304  
LYNNWOOD, WA 98036  
PHONE: (425) 740-8392  
FAX: (425) 252-2860  
WWW.CAMPASSOC.COM

**PROJECT MANAGER:** EJC

**PREPARED BY:** LM

**APPROVED BY:** PN

2/22/17	ISSUED FOR PERMIT
1/12/17	ISSUED FOR PERMIT

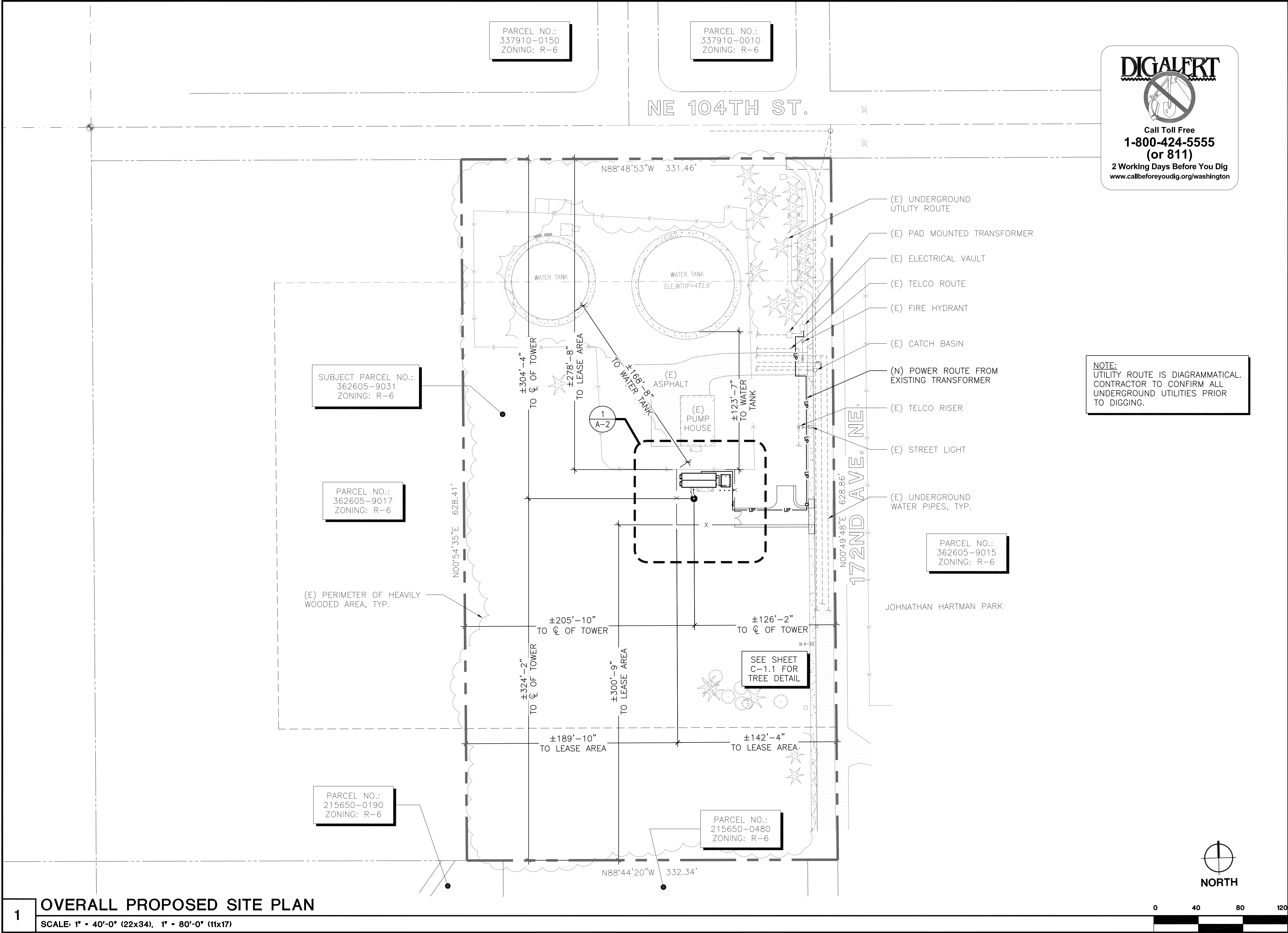
**PLAN REVIEWERS SIGNATURE**

**ARCHITECTS STAMP**

**SHEET NAME**  
LANDSCAPE PLAN

**SHEET NUMBER**  
**L-1**  
16-0929





**DIGALERT**  
Call Toll Free  
**1-800-424-5555**  
(or 811)  
2 Working Days Before You Dig  
[www.callbeforeyoudig.org/washington](http://www.callbeforeyoudig.org/washington)

NOTE:  
UTILITY ROUTE IS DIAGRAMMATICAL.  
CONTRACTOR TO CONFIRM ALL  
UNDERGROUND UTILITIES PRIOR  
TO DIGGING.

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**EDUCATION  
HILL**  
(NEW BUILD)  
**10365 172ND AVE. NE  
REDMOND, WA 98052**

**ODELIA** PACIFIC CORPORATION  
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SEATTLE, WA 98108  
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APPROVED BY: PN

1/12/17	ISSUED FOR PERMIT

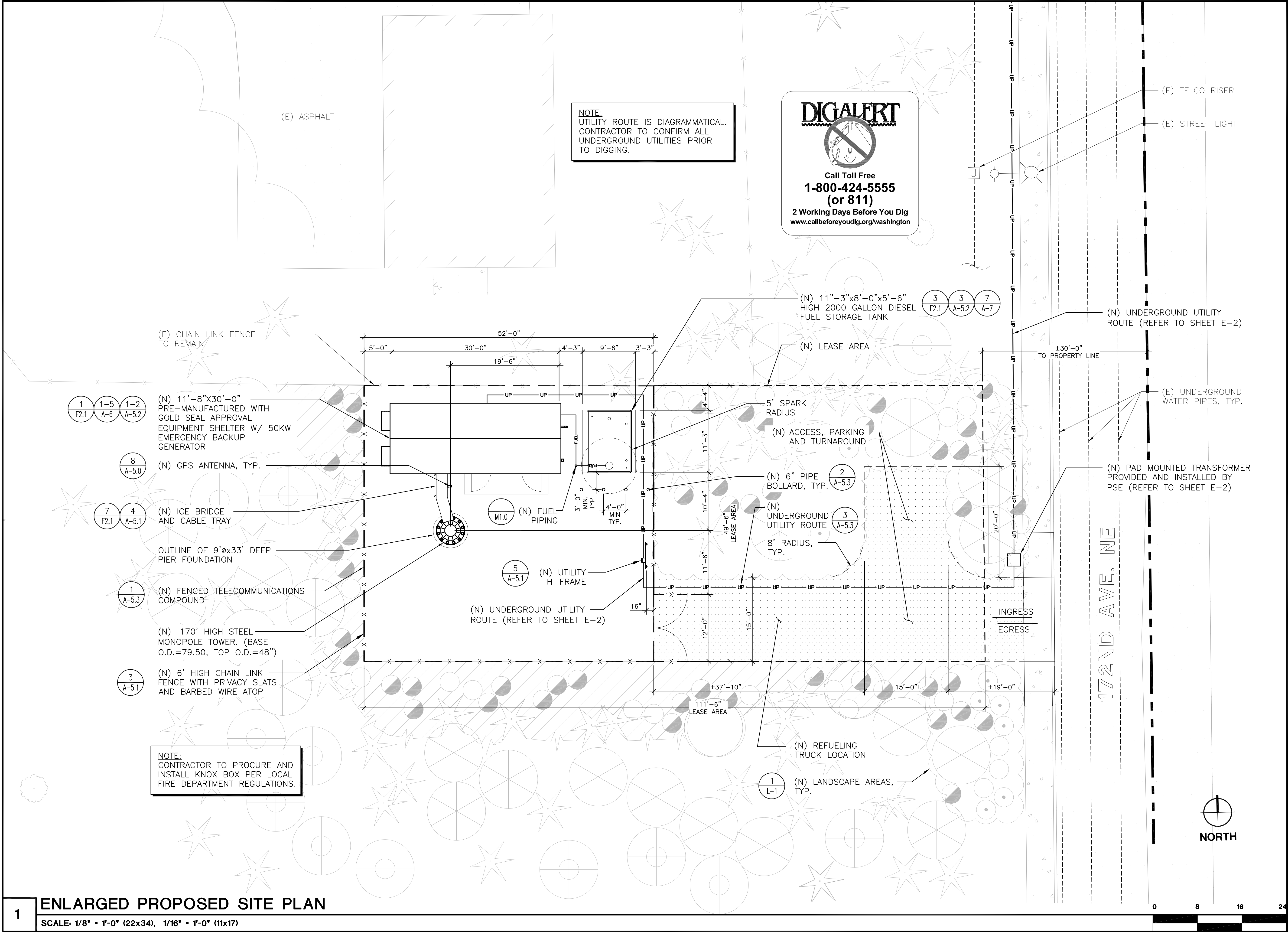
PLAN REVIEWERS SIGNATURE

**ARCHITECTS STAMP**  
7727 REGISTERED ARCHITECT  
PAUL NIXON  
STATE OF WASHINGTON  
01/13/2017

**SHEET NAME**  
**OVERALL  
PROPOSED  
SITE PLAN**

**SHEET NUMBER**  
**A-1**  
16-0930





NOTE:  
UTILITY ROUTE IS DIAGRAMMATICAL.  
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UNDERGROUND UTILITIES PRIOR  
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**EDUCATION  
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(NEW BUILD)  
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WWW.CAMPASSOC.COM

**PROJECT MANAGER:** EJC

**PREPARED BY:** LM

**APPROVED BY:** PN

2/22/17	ISSUED FOR PERMIT
1/12/17	ISSUED FOR PERMIT

**PLAN REVIEWERS SIGNATURE**

**ARCHITECTS STAMP**  
7727 REGISTERED  
ARCHITECT  
PAUL NIXON  
STATE OF WASHINGTON  
01/13/2017

**SHEET NAME**  
ENLARGED  
PROPOSED  
SITE PLAN

**SHEET NUMBER**  
**A-2**  
16-0931



SW 1/4, SECTION 36, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M.

EDUCATION HILL

10365 172ND AVE NE

REDMOND, WA 98052

APPLICANT

ODELIA PACIFIC CORP  
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206.490.3804  
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CONSULTANTS

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LYNNWOOD, WA 98036  
425.740.6390  
CONTACT: ERIC CAMP

CIVIL ENGINEER  
CG ENGINEERING  
250 4TH AVE S, SUITE 200  
EDMONDS, WA 98020  
425.778.8500 FAX 778.5536  
CONTACT: JARED UNDERBRINK

SURVEYOR  
LDC  
14201 NE 200TH ST #100  
WOODINVILLE, WA 98072  
425.806.1869

LEGAL DESCRIPTION

THE EAST HALF OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON:

EXCEPT THE NORTH 30 FEET THEREOF FOR ROAD AS CONVEYED TO THE CITY OF REDMOND BY DEED RECORDED UNDER AUDITORS'S FILE NO. 5446197

SITUATE IN THE CITY OF REDMOND, COUNTY OF KING, STATE OF WASHINGTON

DATUM

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS (NAVD 88), APPLYING GEOID 09 SEPARATIONS USING WSRN RTK NETWORK SOLUTION. ACCURACY MEETS OR EXCEEDS 1A STANDARDS AS DEFINED ON THE FAA ASAC INFORMATION SHEET 91-003.

SITE BENCHMARK

SITE BENCHMARK  
RIM OF EXISTING CATCH BASIN AS SHOWN  
ELEV = 393.63'

PARCEL NUMBER

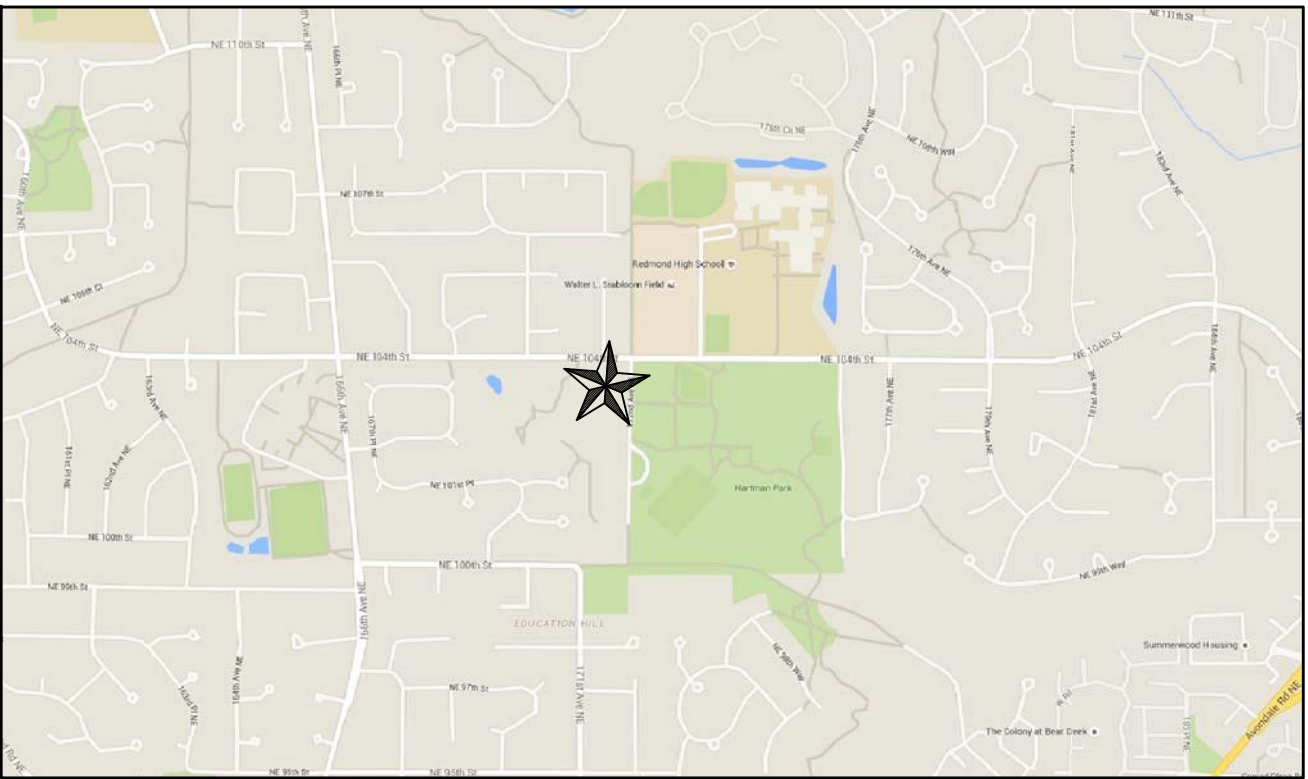
3626059031

ZONING

R6

SHEET INDEX	
C1.1	COVER SHEET & GENERAL NOTES
C2.1	TEMPORARY EROSION CONTROL PLAN
C3.1	GRADING & DRAINAGE PLAN

SITE AREAS:	
PARCEL SIZE:	4.79 ACRES
NEW LEASE AREA:	2,500 SQ FT
NEW DRIVEWAY:	1,329 SQ FT
TOTAL NEW IMPERVIOUS:	3,829 SQ FT



VICINITY MAP

NTS

★ = PROJECT SITE

↑

GENERAL NOTES

CLEARING, GRADING AND TEMPORARY EROSION CONTROL PLANS

1. ALL WORK AND MATERIALS TO BE PER CITY OF REDMOND STANDARDS.
2. KEEP OFF-SITE STREETS CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. ALL STREETS SHOULD BE SWEPT.
3. ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY CITY INSPECTOR.
4. WHEN WORK IS STOPPED/COMPLETED IN AN AREA, THE CITY INSPECTOR MAY REQUIRE POSTCONSTRUCTION EROSION CONTROL INCLUDING SEEDING OR OTHER MEASURES.
5. LOCATIONS SHOWN OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CORRECT LOCATIONS TO AVOID DAMAGE OR DISTURBANCE.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND OTHER RELATED PERMITS PRIOR TO ANY CONSTRUCTION.
7. ALL GROUND COVER IS TO REMAIN UNDISTURBED OUTSIDE OF CLEARING AREAS.
8. THE TEMPORARY EROSION/SEDIMENT CONTROLS SHALL BE INSTALLED, INSPECTED, AND OPERATING BEFORE ANY GRADING OR EXTENSIVE LAND CLEARING. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETE.
9. TIE IMPERVIOUS SURFACES (ROOF, STREETS, DRIVEWAYS, ETC.) TO COMPLETED DRAINAGE SYSTEM AS SOON AS POSSIBLE.
10. A PRE-CONSTRUCTION MEETING WITH THE CONSTRUCTION DIVISION AND ALL PERMITS MUST BE COMPLETED BEFORE START OF CONSTRUCTION.
11. CLEARING LIMITS SHALL BE LOCATED BY A LICENSED CIVIL ENGINEER OR LAND SURVEYOR.
12. APPROVAL OF THIS TEMPORARY EROSION/SEDIMENTATION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN.
13. THIS APPROVAL FOR TESC IS VALID FOR CONSTRUCTION BETWEEN MAY 1 AND SEPTEMBER 30. THIS APPROVAL FOR TESC IS NOT VALID FOR THE RAINY SEASON (OCTOBER 1 THROUGH APRIL 30).
14. REMOVE ALL TESC MEASURES ONCE ALL WORK IS COMPLETED AND SITE IS PERMANENTLY STABILIZED.

LEGEND			
DESCRIPTION	EXISTING	PROPOSED	ABBREVIATIONS
PROPERTY LINE	=====	=====	ABN ABANDONED
ADJACENT PROPERTY LINE	-----	-----	BLDG BUILDING
CENTERLINE	=====	=====	BOW BOTTOM OF WALL
CLEARING LIMITS	=====	=====	CL CENTERLINE
SILT FENCE	----- X -----	----- X -----	CB CATCH BASIN
CONTOUR LINE	----- 100 -----	----- 100 -----	CMP CORRUGATED METAL PIPE
FENCE	----- □ -----	----- □ -----	CO CLEANOUT
SANITARY SEWER LINE	----- → -- SS -- → -----	----- → SS -- → -----	CONC CONCRETE
MANHOLE	----- (M) -----	----- (M) -----	CONST CONSTRUCTION
STORM DRAIN MAIN	----- → -- SD -- → -----	----- → SD -- → -----	CP CONCRETE PIPE
STORM DRAIN PIPE	----- → -----	----- → -----	CU YD CUBIC YARD
ROOF DRAIN	----- R ----- R -----	----- R ----- R -----	DDCVA DOUBLE DETECTOR CHECK VALVE ASSEMBLY
FOOTING DRAIN	----- F ----- F -----	----- F ----- F -----	DI DUCTILE IRON PIPE
PRESSURE LINE	----- P ----- P -----	----- P ----- P -----	DIA DIAMETER
CATCH BASIN (TYPE 1)	----- □ -----	----- ■ -----	DIP DUCTILE IRON PIPE
CATCH BASIN (TYPE 2)	----- (C) -----	----- (C) -----	EA EACH
CLEANOUT	----- ○ -----	----- ● -----	EJ EXPANSION JOINT
CLEANOUT AND WYE	----- (C) -----	----- (C) -----	ELEV ELEVATION
GRADE BREAK	----- -----	----- -----	EOP EDGE OF PAVEMENT
SURFACE SWALE	----- > -----	----- > -----	EX EXISTING
DRAINAGE ARROW	----- → -----	----- → -----	FDC FIRE DEPT. CONNECTION
WATER LINE	----- WA ----- WA -----	----- WA ----- WA -----	FFE FINISHED FLOOR ELEVATION
WATER METER	----- (W) -----	----- (W) -----	FH FIRE HYDRANT
FIRE HYDRANT	----- (F) -----	----- (F) -----	FL FLANGE
FDC	----- (F) -----	----- (F) -----	FT FEET/FOOT
PIV	----- ○ -----	----- ● -----	GV GATE VALVE
GATE VALVE	----- X -----	----- X -----	HP HIGH POINT
TEE	----- T -----	----- T -----	HT HEIGHT
90° BEND	----- J -----	----- J -----	ID INSIDE DIAMETER
THRUST BLOCKING	----- △ -----	----- ▲ -----	IE INVERT ELEVATION
CAP	----- U -----	----- U -----	L LENGTH/LINE
CONCRETE PAVEMENT	----- (C) -----	----- (C) -----	LCPE LINED CORRUGATED POLYETHYLENE PIPE
ASPHALT PAVEMENT	----- (A) -----	----- (A) -----	LF LINEAL FOOT
CRUSHED SURFACING	----- (S) -----	----- (S) -----	LP LOW POINT
ROCKERY	----- (R) -----	----- (R) -----	LT LEFT
SPOT ELEVATION	----- 20.0 -----	----- 20.0 -----	MAX MAXIMUM
TELEPHONE LINE	----- T ----- T -----	----- T ----- T -----	MECH MECHANICAL
POWER LINE	----- E ----- E -----	----- E ----- E -----	MH MANHOLE
GAS LINE	----- G ----- G -----	----- G ----- G -----	
SIGN	----- (S) -----	----- (S) -----	

FLOW CONTROL BMP(S):	
1.	SHEET FLOW DISPERSION PER DEPARTMENT OF ECOLOGY BMP T5.12

SUGGESTED TEMPORARY EROSION CONTROL BMPs	
REFER TO VOLUME II OF THE 2012 DEPARTMENT OF ECOLOGY MANUAL FOR BMP DETAILS AND FOR ADDITIONAL BMP MEASURES.	
1.	PLASTIC OR METAL FENCE (BMP C103)
2.	NETS & BLANKETS (BMP C122)
3.	TEMPORARY & PERMANENT SEEDING (BMP C122)
4.	PLASTIC COVERING (BMP C123)
5.	SILT FENCE (BMP C233)
6.	MULCHING (BMP C121)
7.	STABILIZED CONSTRUCTION ENTRANCE (BMP C105)
8.	DUST CONTROL (BMP C140)
9.	CONCRETE HANDLING (BMP C151)

CITY OF REDMOND BENCHMARKS

NO. COR-9138  
3" BRASS DISK IN CONCRETE MONUMENT IN CASE DOWN 0.8', 1.1' WEST OF EAST EDGE OF CONCRETE SIDEWALK ON THE EAST SIDE OF 166TH AVE. NE. +/-47' SOUTH OF THE CENTERLINE OF NE 104TH ST. STAMPED "CITY OF REDMOND BM 34".

PUBLISHED ELEVATION = 321.57 FEET (NAVD-1988).

NO. COR-9179  
3" DIAMETER BRASS DISK IN CONCRETE MONUMENT IN CASE DOWN 0.4', AT THE TOE OF CONCRETE STAIRS AT THE SOUTHEAST CORNER OF REDMOND HIGH SCHOOL, 6.4' NORTH OF NORTH CURBLINE FOR NE 104TH STREET, +/-47' WEST OF THE CENTERLINE OF 176TH AVE. NE. STAMPED "CITY OF REDMOND BM 35".

PUBLISHED ELEVATION = 369.87 FEET (NAVD-1988).

CITY OF REDMOND HORIZONTAL CONTROL

POINT NO. 4D-SW AKA GPS90-SD3  
SW CORNER SECTION 36, TOWNSHIP 26 N., RANGE 5 E.  
3" BRASS DISK WITH PUNCH MARK IN CONCRETE MONUMENT IN CASE AT CUL-DE-SAC OF 182ND CT. NE NORTH OF NE 99TH ST.

NORTHING 254103.03  
EASTING 1323128.38

POINT NO. 4D-S  
S 1/4 CORNER SECTION 36, TOWNSHIP 26 N., RANGE 5 E.  
1-1/2" BRASS DISK WITH A CHISELED "X" IN A 4"x4" CONCRETE MONUMENT. MONUMENT IS 10' SOUTH OF PATH ON SOUTH SIDE OF JOHNATHAN HARTMAN PARK AND 2' NORTH OF 30" FIR TREE.

NORTHING 254040.22  
EASTING 1325793.18

APPROVED FOR CONSTRUCTION

FOR: Linda E. De Boldt, P.E.  
Director of Public Works  
City of Redmond

Date: \_\_\_\_\_

Plan Chk Engr: \_\_\_\_\_

Storm: \_\_\_\_\_

Utility: \_\_\_\_\_

Fire: \_\_\_\_\_

Trans / Engr: \_\_\_\_\_

Planning: \_\_\_\_\_

THIS approval is for the design concept only. These plans appear to be in conformance with the City Of Redmond design standards for construction. This approval shall not be construed as authorizing construction not in accordance with applicable City standards. The City reserves the right to require revisions to the approved plans to assure conformance with City of Redmond design standards for construction at any time that it is discovered that the proposed construction does not otherwise meet the applicable construction standards. The owner is required to provide designs and plans in accordance with applicable City standards and assures that construction is accomplished in accordance with those standards. The owner and/or design engineer and/or developer may be required to make necessary approved field revisions to correct any errors or omissions found on the approved plan.

811

CAUTION!

CALL BEFORE YOU DIG!

BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE- CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION

1-800-424-5555

King County

EDUCATION HILL

(NEW BUILD)

10365 172ND AVE NE  
REDMOND WA 98052

ODELIA PACIFIC CORPORATION

5506 6TH AVE. S., SUITE 202  
SEATTLE, WA 98108  
PHONE: (206) 490-3826  
WWW.ODELIA.COM

CG ENGINEERING

250 4TH AVE. S., SUITE 200  
EDMONDS, WASHINGTON 98020  
PHONE (425) 778-8500  
FAX (425) 778-5536

CG PROJECT# 16015.913

PROJECT MANAGER JPU

PREPARED BY ZOS

APPROVED BY GAG

REV DATE DESCRIPTION

01/10/17 PERMIT RESUBMITTAL

09/08/16 PERMIT RESUBMITTAL

08/08/16 PERMIT RESUBMITTAL

06/10/16 PERMIT SUBMITTAL

PLAN REVIEWERS SIGNATURE

ENGINEERS STAMP

Chris Gullen

01/10/17

SHEET NAME

COVER SHEET AND GENERAL NOTES

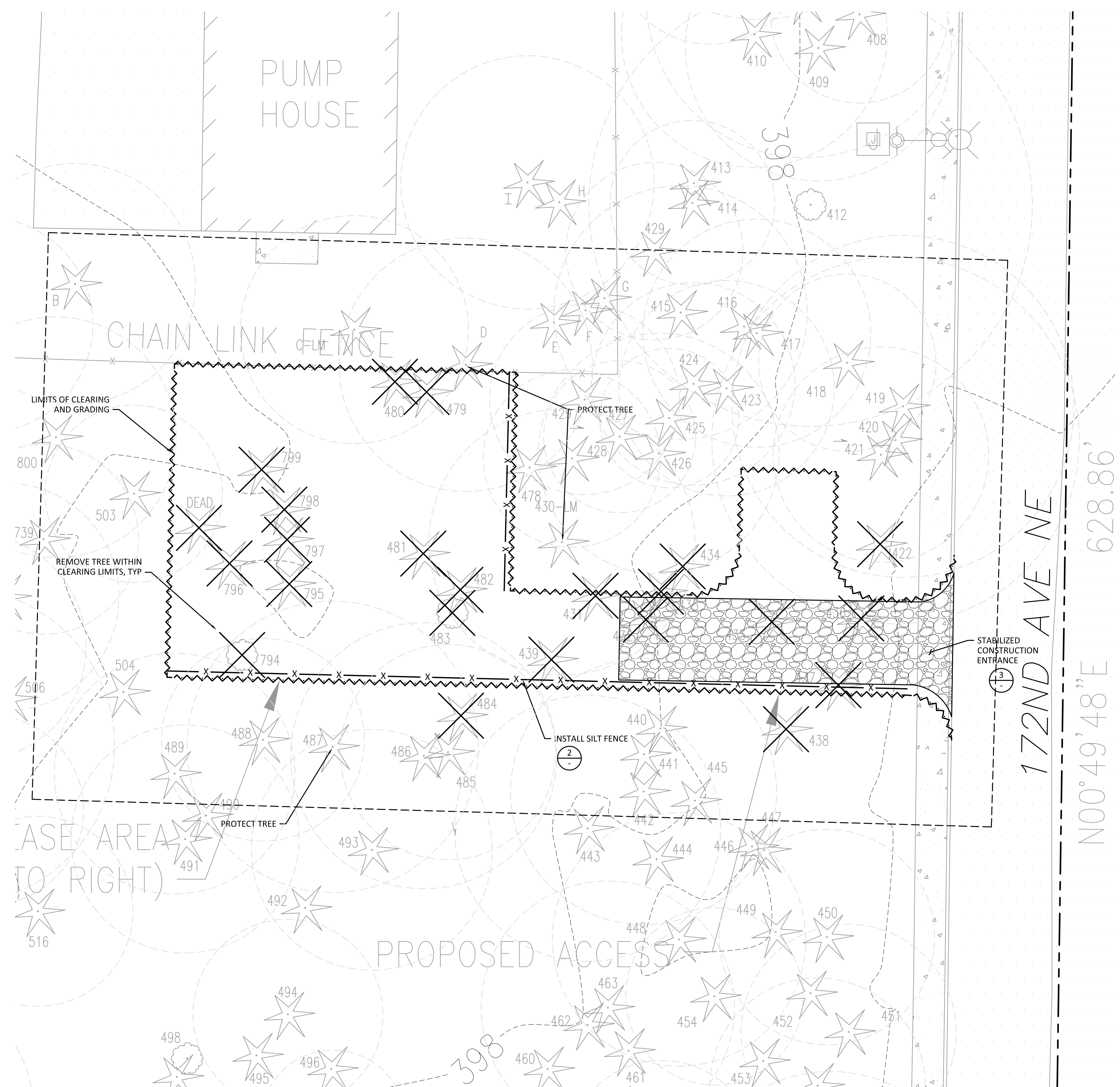
SHEET NUMBER

C1.1

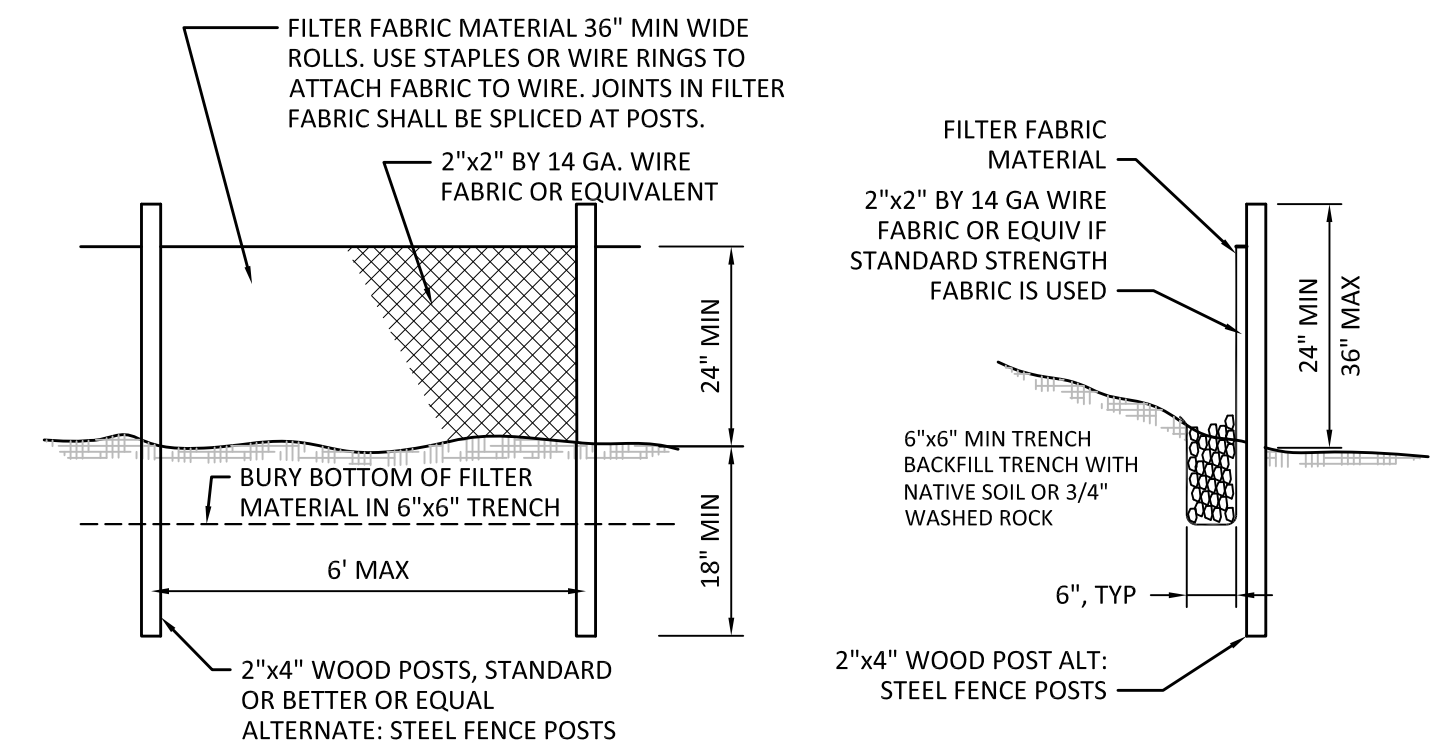
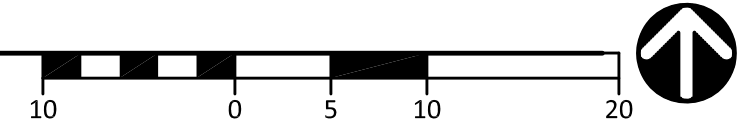
16-0941



SW 1/4, SECTION 36, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M.

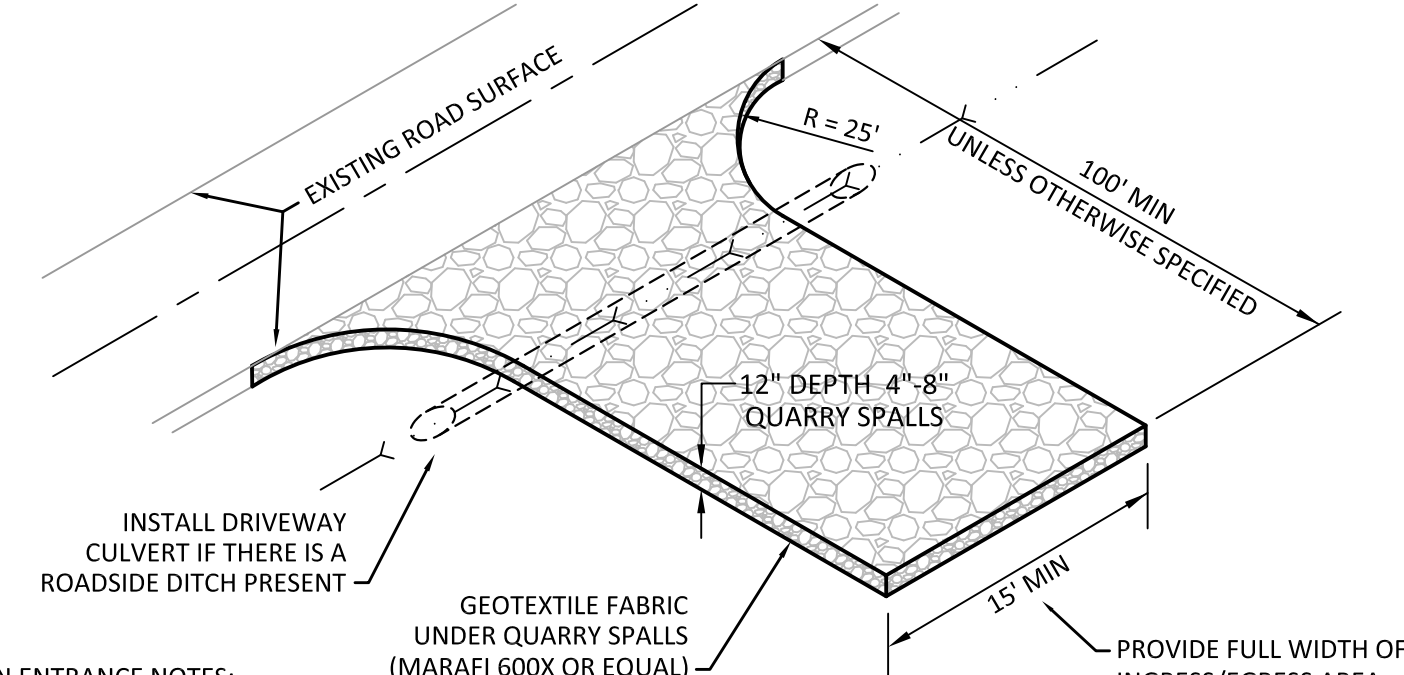


**1** TEMPORARY EROSION CONTROL PLAN  
SCALE: 1" = 10' (22x34)  
1" = 20' (11x17)



- SILT FENCE NOTES:**
1. THE FILTER FABRIC SHALL BE MIRAFI 700X OR APPROVED EQUAL, AND SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
  2. THE SILT FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18 INCHES).
  3. A SHALLOW TRENCH SHALL BE EXCAVATED, ROUGHLY 6 INCHES WIDE AND 6 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POSTS TO ALLOW THE LOWER EDGE OF THE FILTER FABRIC TO BE SECURED WITH GRAVEL.
  4. WHEN FILTER FABRIC NOT AS STRONG AS MIRAFI 700X IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE MESH SHALL EXTEND INTO THE SHALLOW TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  5. THE MIRAFI 700X FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND AT LEAST 18 INCHES OF THE FABRIC SHALL BE BURIED IN THE SHALLOW TRENCH. THE FILTER FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT BE STAPLED TO TREES.
  6. WHEN EXTRA-STRENGTH FILTER FABRIC (MIRAFI 700X OR EQUAL) AND FOUR (4') POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF NOTE 5 APPLYING.
  7. THE TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL OR 3/4" -1.5" WASHED ROCK.
  8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. THE NEWLY DISTURBED AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE IMMEDIATELY SEEDED AND MULCHED, OR OTHERWISE PERMANENTLY STABILIZED TO THE SATISFACTION OF THE CIVIL INSPECTOR.
  9. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
  10. MAINTENANCE: ANY DAMAGED OR CLOGGED FENCE SHALL BE REPAIRED/REPLACED IMMEDIATELY. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT DEPTH IS 6 INCHES OR GREATER. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.

**2** SILT FENCE  
SCALE: 1/2" = 1'-0"



- STABILIZED CONSTRUCTION ENTRANCE NOTES:**
1. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE QUARRY SPALLS SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
  2. AGGREGATE: 4" TO 8" QUARRY SPALLS PER WSDOT STD. SPECS. SEC. 9-13.6.
  3. ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 12" THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 100 FEET (UNLESS OTHERWISE APPROVE BY CIVIL INSPECTOR).
  4. WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE ROCK ENTRANCE, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
  5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY BY SWEEPING. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY.

**3** STABILIZED CONSTRUCTION ENTRANCE  
SCALE: NTS

NOTE:  
SEE TREE PRESERVATION PLAN TR-01, BY  
OTHERS FOR ADDITIONAL DETAILS.

**APPROVED FOR CONSTRUCTION**

FOR: Linda E. De Boldt, P.E.  
Director of Public Works  
City of Redmond

Date: \_\_\_\_\_

Plan Chk Engr: \_\_\_\_\_

Storm: \_\_\_\_\_

Utility: \_\_\_\_\_

Fire: \_\_\_\_\_

Trans / Engr: \_\_\_\_\_

Planning: \_\_\_\_\_

This approval is for the design concept only. These plans appear to be in conformance with the City Of Redmond design standards for construction. This approval shall not be construed as authorizing construction not in accordance with applicable City standards. The City reserves the right to require revisions to the approved plans to assure conformance with City of Redmond design standards for construction at any time that it is discovered that the proposed construction does not otherwise meet the applicable construction standards. The owner is required to provide designs and plans in accordance with applicable City standards and assures that construction is accomplished in accordance with those standards. The owner and/or design engineer and/or developer may be required to make necessary approved field revisions to correct any errors or omissions found on the approved plan.



**EDUCATION HILL**  
(NEW BUILD)

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**ODELIA PACIFIC CORPORATION**

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**CG ENGINEERING**

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PHONE (425) 778-8500  
FAX (425) 778-5536

CG PROJECT# 16015.913

**PROJECT MANAGER** JPU

**PREPARED BY** ZOS

**APPROVED BY** GAG

REV	DATE	DESCRIPTION
Δ	01/10/17	PERMIT RESUBMITTAL
Δ	09/08/16	PERMIT RESUBMITTAL
Δ	08/08/16	PERMIT RESUBMITTAL
Δ	06/10/16	PERMIT SUBMITTAL

**PLAN REVIEWERS SIGNATURE**

**ENGINEERS STAMP**

*Greg Guillen*

01/10/17

**SHEET NAME**

**TEMPORARY EROSION CONTROL PLAN**

**SHEET NUMBER**

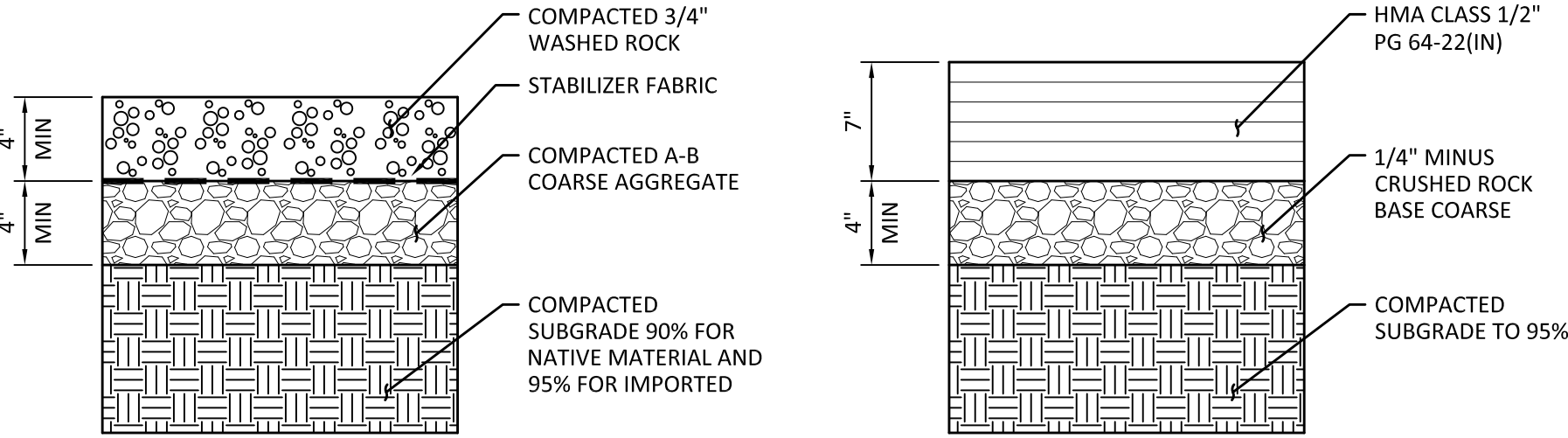
**C2.1**



SW 1/4, SECTION 36, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M.

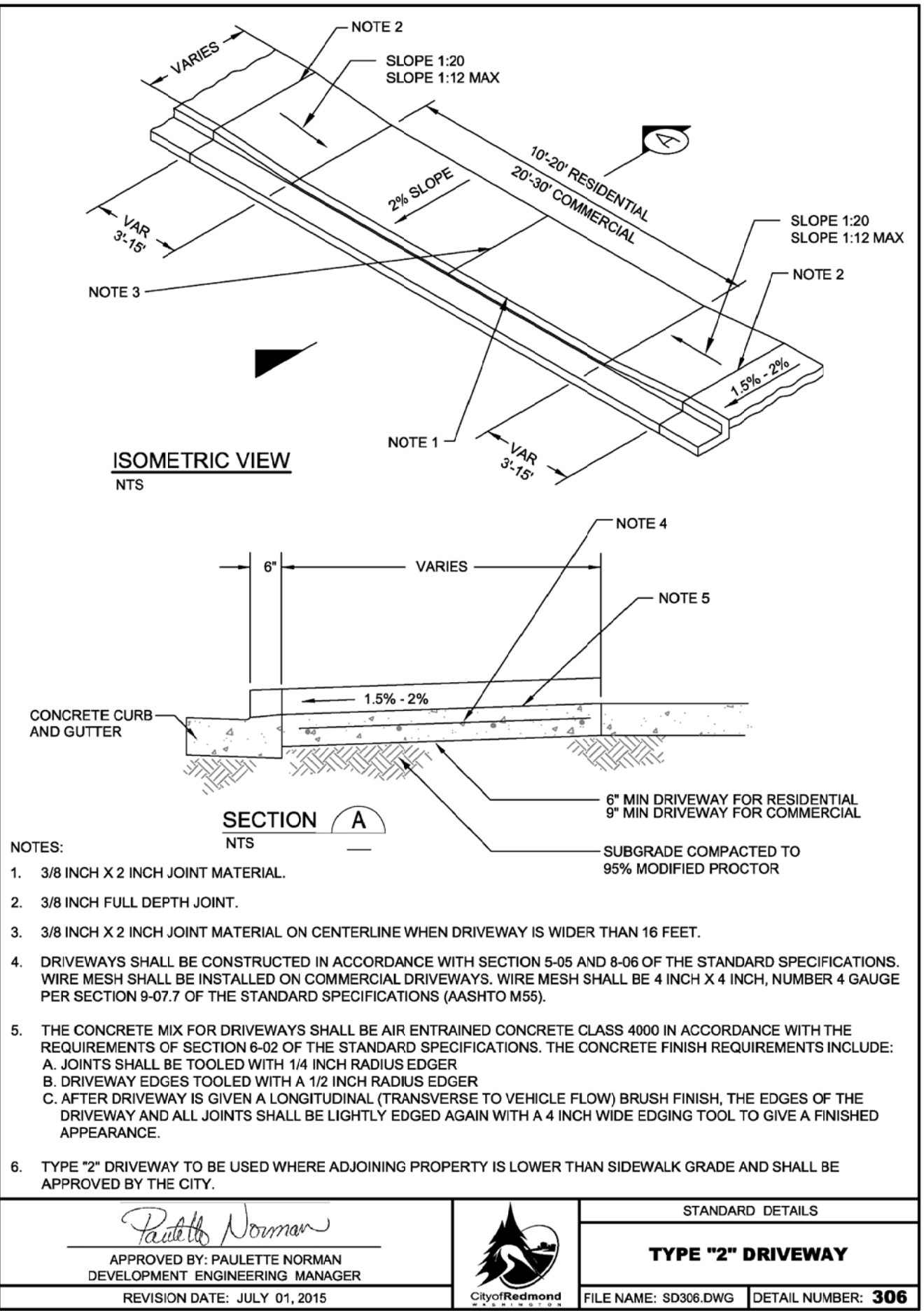
GRADING QUANTITIES	
TOTAL EXCAVATION (CUT) -	40 CU YDS TOTAL
EMBANKMENT (FILL) -	5 CU YDS
TOTAL	45 CU YDS

THE QUANTITIES SHOWN ABOVE ARE FOR THE PERMIT PROCESS ONLY. THESE VALUES ARE APPROXIMATE. DO NOT USE FOR BIDDING, PAYMENT, OR ESTIMATING PURPOSES.



2 GRAVEL PAVING DETAIL  
SCALE: 1" = 1'-0"

3 PAVEMENT DETAIL  
SCALE: 1" = 1'-0"



4 CITY OF REDMOND STANDARD DETAIL  
SCALE: NTS

APPROVED FOR CONSTRUCTION

FOR: Linda E. De Boldt, P.E.  
Director of Public Works  
City of Redmond

Date:

Plan Chk Engr:

Storm:

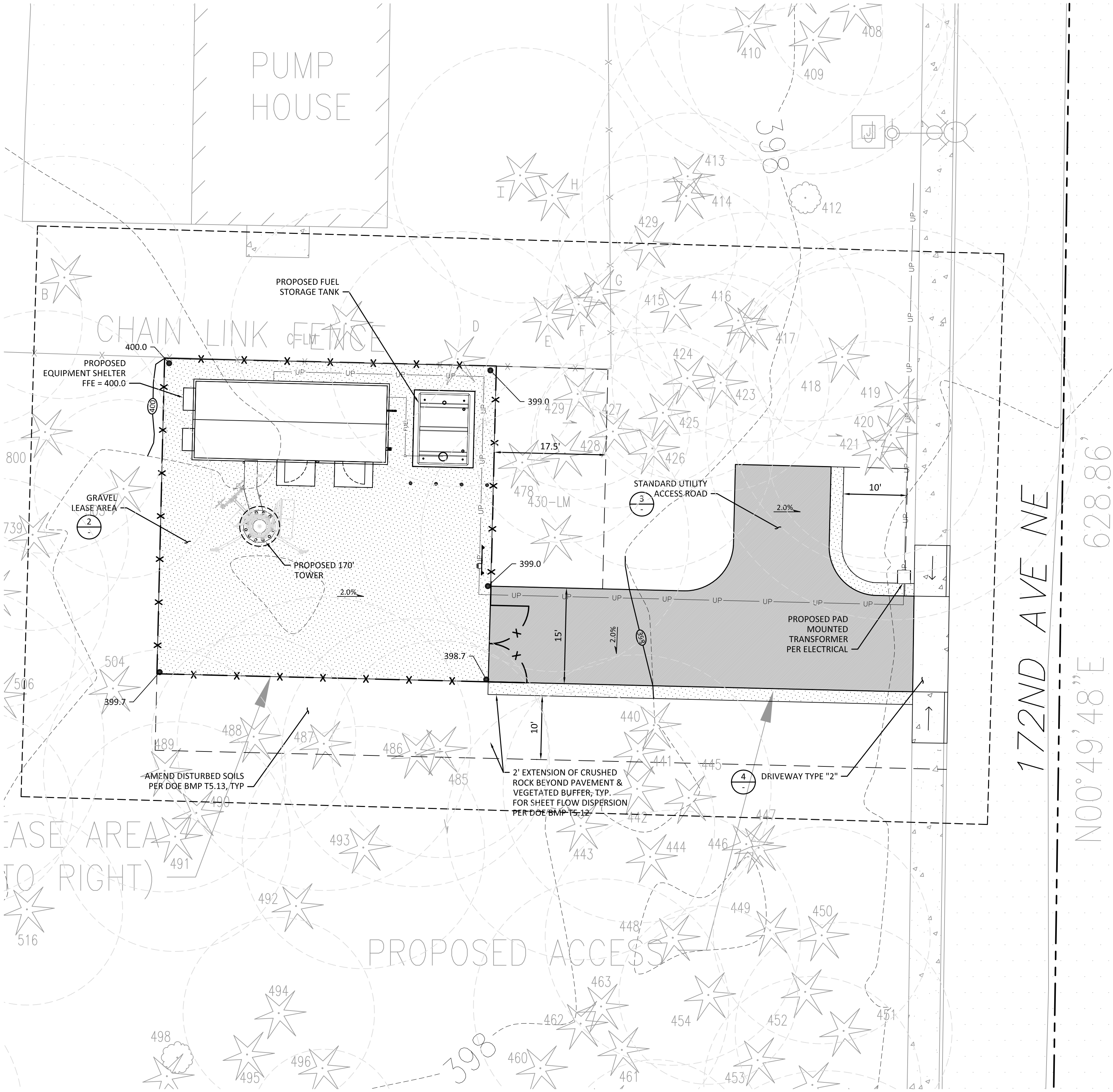
Utility:

Fire:

Trans / Engr:

Planning:

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1 GRADING AND DRAINAGE PLAN  
SCALE: 1" = 10' (22x34)  
1" = 20' (11x17)

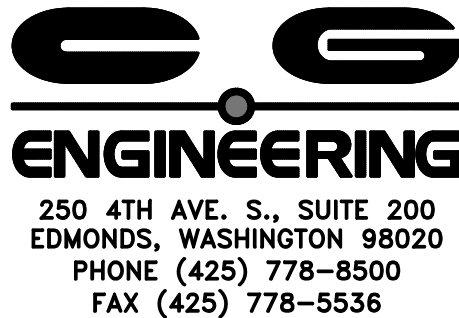


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CG PROJECT# 16015.913

PROJECT MANAGER JPU

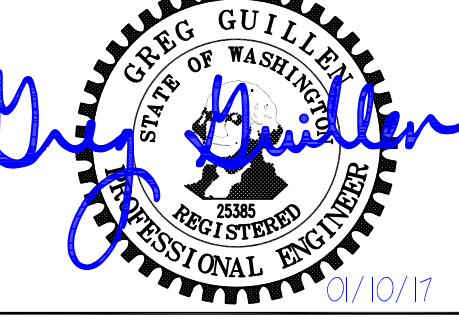
PREPARED BY ZOS

APPROVED BY GAG

REV	DATE	DESCRIPTION
1	01/10/17	PERMIT RESUBMITTAL
2	09/08/16	PERMIT RESUBMITTAL
3	08/08/16	PERMIT RESUBMITTAL
4	06/10/16	PERMIT SUBMITTAL

PLAN REVIEWERS SIGNATURE

ENGINEERS STAMP



SHEET NAME

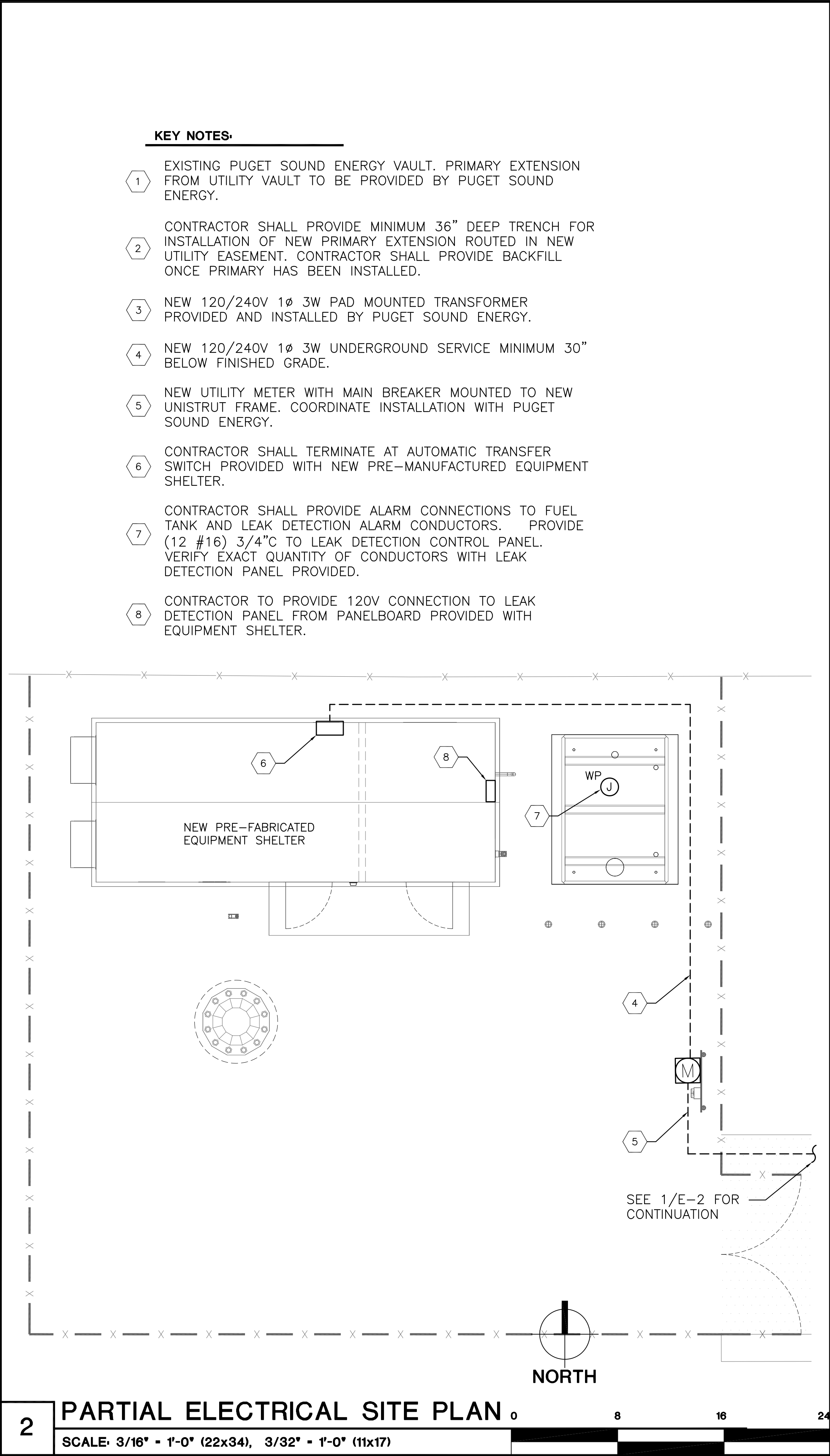
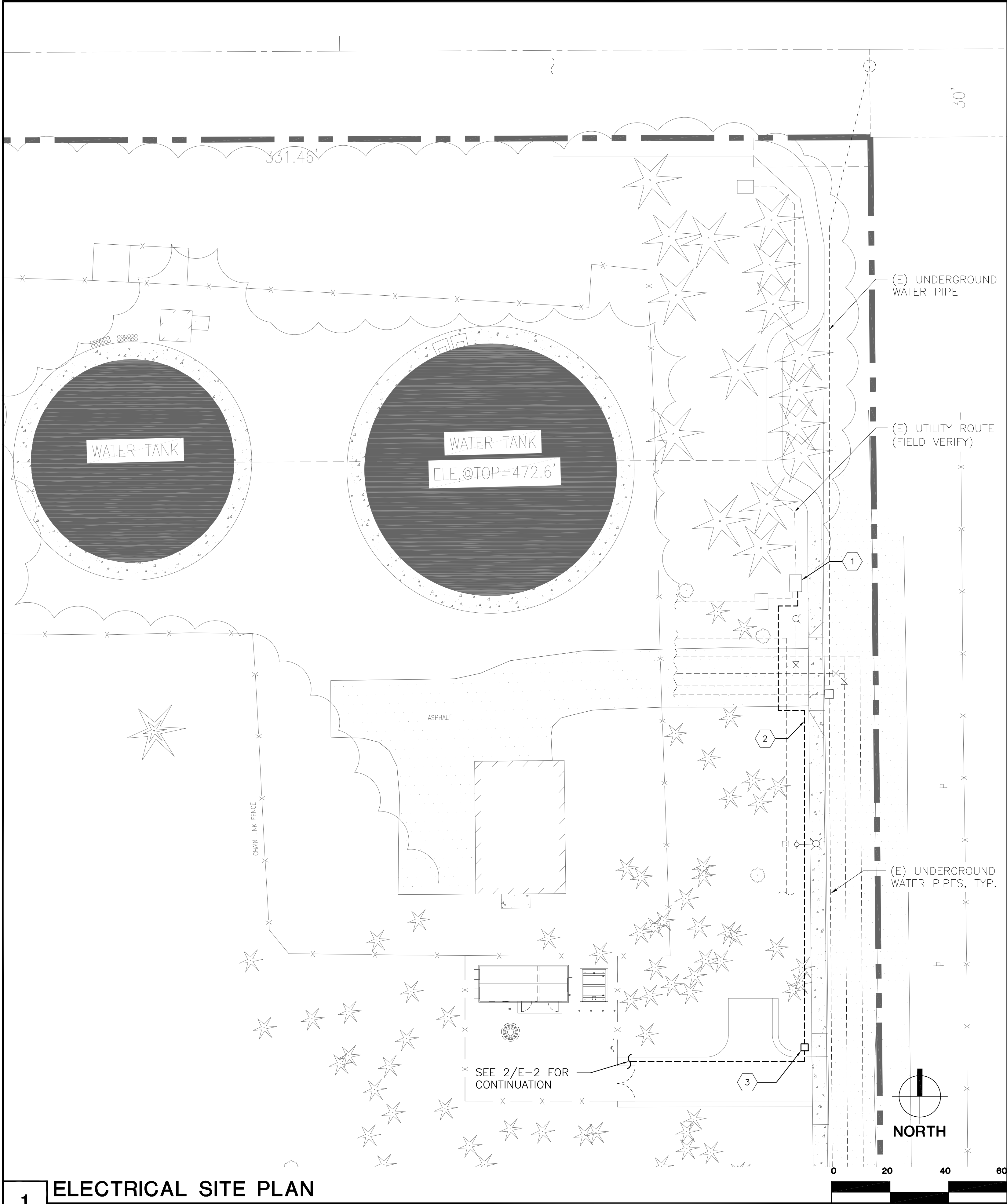
GRADING AND DRAINAGE PLAN

SHEET NUMBER

C3.1

16-0943





King County

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PROJECT MANAGER: EJC

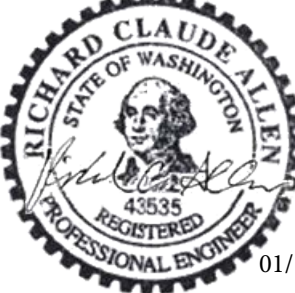
PREPARED BY: LM

APPROVED BY: PN

1/12/17 ISSUED FOR PERMIT

PLAN REVIEWERS SIGNATURE

ARCHITECTS STAMP



SHEET NAME

ELECTRICAL  
SITE PLAN

SHEET NUMBER

E-2

16-0948